

# JILSON CORREIA

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## EDUCATION

<b>Northeastern University, Master of Science, Computer Software Engineering, Boston, MA</b>	Sept 2023 – Aug 2025
Relevant courses: Object-Oriented Design, Web Development, Artificial Intelligence, Data Structures	
<b>University of Mumbai, Bachelor of Engineering, Computer IT Engineering, Mumbai, India</b>	Aug 2018 – June 2022
Relevant courses: Data Structures and Algorithms, Computer Networks, Software Engineering, Cloud Computing, Operating Systems	

## TECHNICAL SKILLS

- Backend:** Java, Python, NodeJS, Spring Boot, Express.js, FastAPI, Go
- Frontend:** React, Next.js, JavaScript, HTML5, CSS3, SASS, TypeScript
- AI/ML:** RAG, FAISS, Transformers, FLAN-T5, Sentence Transformers, Fine-tuning, Vector Databases
- Cloud & DevOps:** AWS (EC2, S3, Lambda, CloudFront), Azure, Docker, Kubernetes, Jenkins, GitHub Actions
- Databases:** MySQL, PostgreSQL, MongoDB, Oracle, Redis, NoSQL, Kafka
- Observability & Monitoring:** Prometheus, Grafana, System Diagnostics, Logging
- Tools:** Git, Postman, Jira, Selenium, JUnit, Unix, Linux (Shell, Bash, System Monitoring)
- Concepts:** Microservices, CI/CD, System Design, Reliability Engineering, Performance Optimization, Debugging, Agile Development, Troubleshooting, Operational Excellence

## EXPERIENCE

<b>Software Development Engineer , IPSER LAB, Mountain View, USA</b>	Jan 2025 - May 2025, Oct 2025 - Present
– Built scalable backend services in Node.js and integrated REST APIs with React, improving modularity and reducing dev effort.	
<b>Software Developer , IWMBUZZ, Mumbai, India</b>	Jan 2023 – July 2023
– Developed responsive React components that enhanced user experience, increasing engagement and reducing bounce rates.	

## PROJECTS

<b>Content Management System (CMS)   <a href="#">GitHub</a></b>	
– Designed and built a fullstack Content Management System using Spring Boot and React, enabling course creation, quiz management, and interactive learning features.	
– Deployed the backend microservice on AWS EC2 with Docker and GitHub Actions, ensuring automated delivery, scalability, and reduced deployment overhead.	
– Applied Object-Oriented principles such as inheritance and factory patterns improving code maintainability and reliability.	
– Implemented role-based access control to manage authorization, ensuring secure user experiences for instructors, and students.	
– Integrated Redis caching to accelerate content retrieval, reducing API response times by 35%.	
<b>Distributed Rate Limiter Service   <a href="#">GitHub</a></b>	
– Developed a distributed file storage system with fault tolerance and replication in Go and gRPC, reliably supporting 5k+ concurrent client requests.	
– Implemented consistent hashing for smarter load balancing, helping evenly distribute traffic and reduce server hotspots by 35%.	
– Created monitoring dashboards with Prometheus and Grafana, enabling real-time system metrics tracking and timely alerts.	
– Improved the client-side SDK with retry and error-handling logic, increasing reliability during network instability.	
<b>BuffettBot - AI Investment Advisor   <a href="#">GitHub</a></b>	
– Built a chatbot using RAG architecture with LangChain and FAISS, reducing average query response times by 45%.	
– Deployed the service on AWS Lambda and API Gateway, achieving sub-300ms latency while handling 10k+ daily queries.	
– Introduced multilingual support across 5 regions, broadening accessibility and driving global adoption.	
– Built a Next.JS dashboard for investment trend visualization, improving interpretability for end-users.	